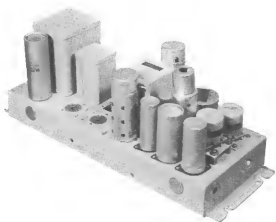


124F AMPLIFIER



GENERAL

The 124F amplifier is a push-pull, two-stage amplifier with self-contained power supply unit and plate supply filter. It is intended for use as a combination monitoring and talk-back amplifier in speech input equipment and through the use of two separate input channels it fulfills either high or low gain requirements.

ELECTRICAL CHARACTERISTICS

Gain

Line Input - High gain: 60 db.
Bridging: 47 db.

Low Level - - 104 db.
Input

Source Impedance- Matching: 0 to 1000 ohms.
Bridging: 0 to 25,000 ohms. Low level input: 15 to 250 ohms (nominal 30 and 120 ohms).

Internal Input - High gain input: 1000 ohms.
Impedance Bridging: 4000 ohms.
Low level input: high.

Internal Output - 3/4 of nominal load impedance.
Impedance

Load Impedance - 1.75, 7.5, 16, 30, 150 or 600 ohms. Also 70-volt loudspeaker distribution line. See output connection table on schematic.

Output Level - - +41 dbm (12 watts) with less than 5% total harmonic distortion from 50 to 5000 cycles, and +43 dbm (20 watts) with 5% total harmonic distortion at 400 cycles with 600-ohm load.

Output Noise - - -8 dbm (unweighted).

Frequency - - - Line input: +1 db, 50 to
Response 10,000 cycles, -3 db at 15,000
cycles. Microphone input:
+1 db, 50 to 15,000 cycles.

Gain Control

Line Input - 38 db in 2 db steps.

Low Level - - 35 db continuously variable.
Input

Power Supply - - 105 to 125 volts, 50 to 60
cycles, 1.1 amperes, 105 watts when used
with 12-watt output connection. 105 to 125
volts, 50 to 60 cycles, 1.25 amperes, 125
watts when used with 20-watt output connection.

EQUIPMENT CHARACTERISTICS

Dimensions - - - 19" wide, 7" high, 7-3/8"
deep including controls.

Weight - - - - - Approximately 20 pounds.

Finish - - - - - Chassis: Aluminum lacquer.
Front and edge of mat: black enamel or
dark aluminum gray.

Mounting - - - - - Relay rack, shelf or apparatus cabinet.

ELECTRON TUBES

(These tubes are not supplied with the amplifier and must be ordered separately.)

	W.E. Co.		Commercial
2 - - - - -	348A	or	6J7 or 6J7G
2 - - - - -	350B	or	6L6 or 6L6G
1 - - - - -	274B	or	5T4 or 5U4G
1 - - - - -			1612 or 6L7 or 6L7G

REFERENCES

ESX-675954 - - - - - Assembly and Stock List.
ESX-68049 - - - - - Wiring Diagram.
ESXX-680489 - - - - - Schematic.

